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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/772,945	01/31/2001	Sugitaka Oteki	202507US2	1573
22850	22850 7590 04/11/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			POON, KING Y	
	1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
	•		2624	
			DATE MAILED: 04/11/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		09/772,945	OTEKI ET AL.		
		Examiner	Art Unit		
		King Y. Poon	2624		
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with th	e correspondence address		
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLEMAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a replement of the property of the property of the property of the property will, by statute the property will be set or extended period for reply will, by statute the property of th	136(a). In no event, however, may a reply b oly within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS to the, cause the application to become ABANDO	e timely filed days will be considered timely. from the mailing date of this communication. DNED (35 U.S.C. § 133).		
Status					
1)	Responsive to communication(s) filed on 25 (<u>October 200</u> 4.			
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Dispositi	ion of Claims				
5)□ 6)⊠ 7)□	•				
Applicati	on Papers	,			
10)⊠	The specification is objected to by the Examinathe drawing(s) filed on 31 January 2001 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the E	e: a) accepted or b) object or b object of a drawing (s) be held in abeyance.	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document Certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the Copies of the priority document Copies of the Copies of	ts have been received. ts have been received in Applic prity documents have been rece nu (PCT Rule 17.2(a)).	cation No sived in this National Stage		
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2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) · No(s)/Mail Date <u>1/31/2001</u> .	4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other:			

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DETAILED ACTION

- 1. Claims 3-5, 8-10, 12, 13 withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 10/25/2005.
- 2. Applicant's election with traverse of restriction requirement in the reply filed on 10/25/2005 is acknowledged. The traversal is on the ground(s) that 1) the reason that fig. 9, 10; fig. 11, 12; and fig. 13, 14 belong to different species is not being given by the examiner and 2) examining the entire application can be made without serious burden. This is not found persuasive because:
- 1) Embodiment I is an invention being carried out in a compression unit.

 Embodiment II, III is an invention being carried out in a data decompression unit.

 Clearly decompression and compression are different and mutually exclusive.

 Embodiment II and III are different species because the applicant has admitted that they are different species (embodiment) as disclosed in applicant's specification, page 15, lines 19-25, page 16, lines 1-8.
- 2) Decompression require the search of class 382/233; compression requires the search of area 358/426.13, 426.14; switch (embodiment II) requires the search of area 710/316, 370/352; and extraction (embodiment III) requires the search of area 702/70. The above are examples of non-overlapping search area.

Furthermore, since the inventions are different species, the best prior art for invention I, the best prior art for invention II, and the best prior art for invention III are all

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different. The search for invention I is completed would require further search for invention II and vice versa, the search for invention I is completed would require further search for invention III and vice versa, and the search for invention II is completed would require further search for invention III and vice versa. Therefore, the search and examination of the entire application cannot be made without serious burden.

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The requirement is still deemed proper and is therefore made FINAL.

3. Applicant is advised that should claims 1, 2 be found allowable, claims 6, 7 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Specification

4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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6. Claims 1, 2, 6, 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1: It is unclear "the image data of pixels divided by said dividing unit" of line 7 is the "the image data of pixels divided by the dividing unit" after being stored or before being stored by the storage unit of lines 4-5.

Regarding claim 6: It is unclear "the image data of pixels divided by said dividing means" of line 7 is the "the image data of pixels divided by the dividing means" after being stored or before being stored by the storage means of lines 4-5.

Claims 2, 7 are rejected under 35 U.S.C. 112, second paragraph because they depend on rejected claims 1, 6.

Claim Rejections - 35 USC § 102

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 7. Claims 11 is rejected under 35 U.S.C. 102(b) as being anticipated by Okino (US 5,754,705).

Regarding claim 11: Okino teaches an image processing method comprising the steps of: dividing image data into m x n pixels, having n lines with m pixels per one line (column 2, lines 50-67); storing the image data of pixels (column 3, lines 5-10) which are divided by said dividing step; providing a control (since the dividing and storing and sending image data from one place to another requires control; controlling is inherent) so as to send the image data of pixels divided by said dividing step, and the image data

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stored by said storing step, respectively, to a predetermined destination (column 3, lines 30-50); batch compressing the image data of mxn pixels (column 3, lines 35-40), wherein said providing step sends (n-1) lines of image data among dividing step to said storing step, and the remaining one line of image data directly to said compressing step; and image data of m x n pixels divided by said controls sending of the image data of m x (n-1) pixels stored said storage step to said compressing step (column 3, lines 30-50).

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 1, 2, 6, 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okino (US 5,754,705).

Regarding claims 1, 6: Okino teaches an image processor (image processing system, column 1, lines 10-15) comprising: a dividing unit (shift register divided the pixel in m rows (lines) and each rows has n pixels, column 2, lines 60-67) which divides image data into m x n pixels, having n lines with m pixels per one line; a storage unit (306, column 3, line 1) which stores the image data of pixels, (column 3, lines 1-5) which are divided by said dividing unit; sending the image data of the image data of pixels divided by the dividing unit, and the image data stored by said storage unit, respectively, to a predetermined destination (the compression processor, column 3,

lines 30-41); a compression unit (307, column 3, lines 18-21) which batch compresses the image data of m x n pixels, wherein (n-1) lines of image data among the image data of m x n pixels divided by said dividing unit are being send to said storage unit, and the remaining one line of image data are being send directly to said compression unit; and sending the image data of m x (n-1) pixels stored in said storage unit to said compression unit (column 3, lines 30-41).

Okino, while discussion the well known conventional invention, does not disclosed a control unit for controlling the image processor.

However, Okino, in column 5, lines 15-30, teaches to use a controlling unit to control the entire image processor in his invention.

Since the conventional invention discussed by Okino is not controlled by human, it requires some kind of controlling device to control the timing of the operation.

Therefore, it would have been obvious to a person with ordinary skill in the art at the time the invention was made to have modified the conventional invention to include: controlling unit to control the entire image processor in order for the conventional invention (image processor) to be properly functioning.

Regarding claims 2, 7: Okino teaches wherein said storage unit comprises (n-1) number of FIFO memories (column 3,lines 40-50), and said control unit controls sending of each line of the image data divided by said dividing unit to said FIFO memories (column 3, lines 5-16), respectively.

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Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to King Y. Poon whose telephone number is (571) 272-7440.

3/31/05

KING Y. POON PRIMARY EXAMINER